Abstract

The invention relates to a device for object recognition
for an automotive passenger protection system, comprising a
signal source (10), adapted to generate at least one
electromagnetic wave (12), and a receiver (14) for the at
least one electromagnetic wave (18) reflected by an
obstacle (16). The inventive device is provided with an
evaluation unit (20) that is adapted to evaluate the
polarization of the at least one electromagnetic wave (18)
reflected by the obstacle (16) and received by the receiver
(14) and to generate at least one evaluation signal (22).
The inventive device and method allow for obtaining
additional information on the obstacle such as its surface
structure and using the same for the automotive passenger
protection system.